- **Accuracy ± 0.075%**
- **Range 1 mbar ÷ 20 bar**
- **Hart communication**
- **LCD backlight display**
- **Settings via display**
- **Fast time responsive self-diagnostics**
- **ATEX**

It is a differential pressure transmitter with performance at the top of the range and is designed for specificinstallationsin processes where accuracy and stability over time are essential characteristics. Thanks to its technology it measures very low differential pressures from 1 mbar (10 mm H2O). It is fully programmable by means of two external watertight buttons and a matrix backlight display.
The programming or modification of the measurement parameters can be carried out in heavy duty ambient conditions without having access to the internal instrument parts thus maintaining the degree of protection IP67.

TECHNICAL FEATURES

Measure range
Differential pressure Max. 0÷20bar (0÷2Mpa); Min. 0÷0.001bar (0÷100Pa)

Accuracy
±0.075

Analog output resolution
15 bit

Communication protocol
HART

Zero and span calibration
onboard buttons

Data display
backlit alphanumeric display

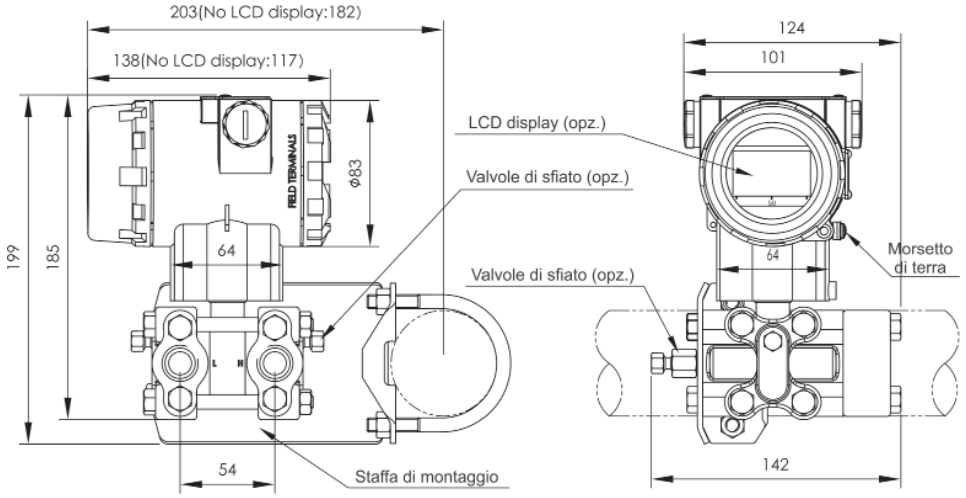
IP rating
IP67

Accuracy
±0.075%

Stability
> ±0.1%FS

Working temperature
-40°÷+85°C

Certificazion
Atex



Differential pressure transmitter

IP67 - Operation temperature: -40 ÷ +85°C
Power supply: 12÷42Vdc (2-wire)
4÷20mA HART

Accuracy	
H	± 0,075%

Measure range	
A	0 - 100Pa ÷ 1kPa (0 - 1 ÷ 10mbar) (0 - 10 ÷ 100 mmH²O)
B	0 - 200Pa ÷ 6kPa (0 - 2 ÷ 60mbar) (0 - 20 ÷ 600 mmH²O)
C	0 - 400Pa ÷ 40kPa (0 - 4 ÷ 400mbar) (0 - 40 ÷ 4000 mmH²O)
D	0 - 2,5kPa ÷ 250kPa (0 - 25 ÷ 2500mbar) (0 - 0,25 ÷ 25 mH²O)
E	0 - 20kPa ÷ 2MPa (0 - 0,2 ÷ 20bar) (0 - 2 ÷ 200 mH²O)

Membrane / filling liquid	
A	AISI316L / silicone oil
B	AISI316L / fluorinated oil
C	Hastelloy C / silicone oil
D	Hastelloy C / fluorinated oil
E	AISI316L gold plated / silicone oil
F	AISI316L gold plated/ fluorinated oil
G	AISI316L EFP plated / silicone oil
T	Tantalum / silicone oil

Working pressure	
1	16MPa
2	25MPa
3	40MPa

Process connection	
B	¼" - 18 NPT female SS316 thread with relief valves at the end of the flange
D	¼" - 18 NPT female SS316 thread with relief valve on the lower part of the flange side
N	¼" - 18 NPT female SS316 thread without relief valves
U	¼" - 18 NPT female SS316 thread with relief valve on the upper part of the flange side
Z	Special

Sealed material	
F	Viton (FKM)
N	Perbunan (NBR)
P	Teflon (PTFE)

Special functions	
N	None
O	Degrease cleansing treatment (just with fluorinated oil and Viton seal, max 60°C)
P	Line noise filter

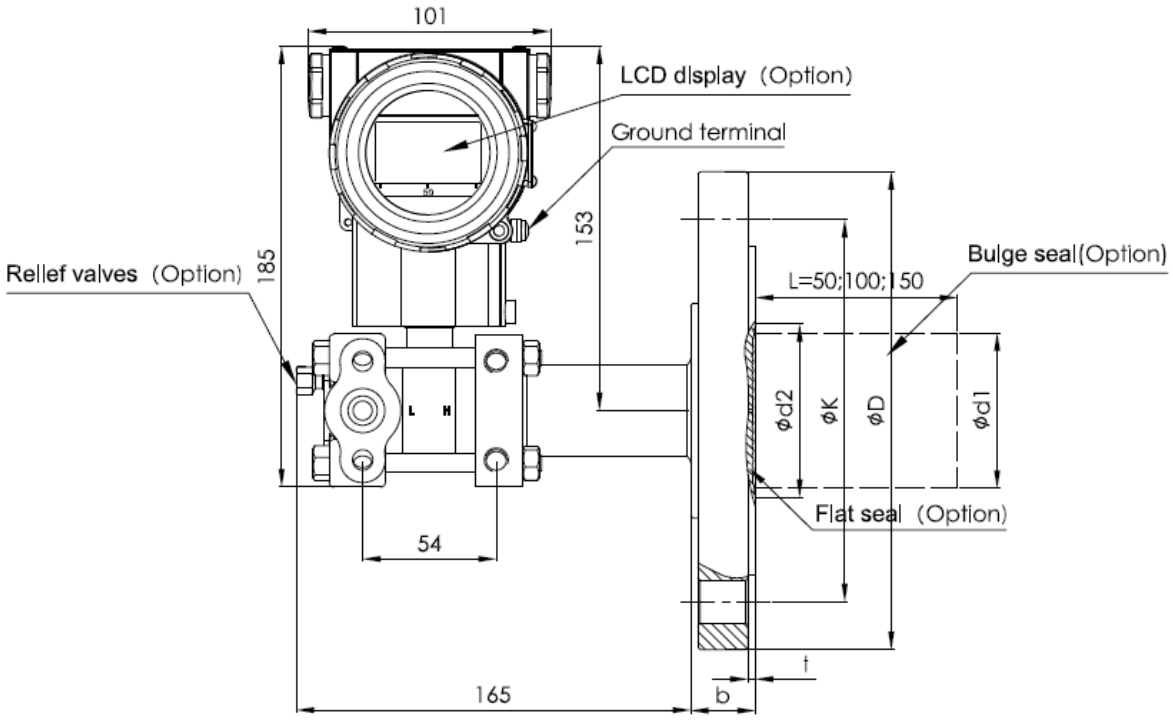
Fixing bracket for panel and pipe mounting (2")	
1	SS304
2	Galvanized carbon steel
N	None

Process connection accessories	
1	SS316 oval-shaped flange with ½" NPT female thread
2	SS316 D-shaped connector with M20x1.5 male thread (welded connection)
N	None

Display	
2	Backlit LCD
N	None

Certification	
A	Intrinsically Safe ATEX II 1/2G Ex ia IIC T4 Ga/Gb
D	Explosion proof ATEX II 2 G D Ex db IIC T4/T5/T6 Gb Ex tb IIIC T80°C/T90°C/T130°C - Ta = -40°C ÷ +60°C
N	None

Flangia	Pressione di lavoro	ΦD (mm)	ΦK (mm)	Φd1 (mm) Ver. con estensione	Φd2 (mm) Ver. senza estensione	Φd3 (mm)	t (mm)	b (mm)	Bulloni	
DN 50 - DIN 2501 (Tenuta DIN 2526E)	PN1.6/4MPa	165	125	48.3	57	102	$3^{+0.5}$	20	4	M16
	PN 6.4MPa	18	135	48.3	57	102	$3^{+0.5}$	26	4	M20
	PN 10MPa	195	145	48.3	57	102	$3^{+0.5}$	28	4	M20
DN 80 - DIN 2501 (Tenuta DIN 2526E)	PN1.6/4MPa	200	160	76	75	138	$3^{+0.5}$	24	8	M16
	PN 6.4MPa	215	170	76	75	138	$3^{+0.5}$	28	8	M20
	PN 10MPa	230	180	76	75	138	$3^{+0.5}$	32	8	M24
DN 2" （ANSI B 16.5 RF）	150psi	152.4	120.6	48.3	57	92.1	$3^{+0.5}$	17.4	4	M18
	300psi	165.1	127.0	48.3	57	92.1	$3^{+0.5}$	20.6	8	M18
	600psi	165.1	127.0	48.3	57	92.1	6.35	31.75	8	M18
DN 3" （ANSI B 16.5 RF）	150psi	190.5	152.4	76	75	127	$3^{+0.5}$	22.2	4	M16
	300psi	209.5	168.3	76	75	127	$3^{+0.5}$	27.0	8	M20
	600psi	209.5	168.3	76	75	127	6.35	38.05	8	M20
DN 4“ （ANSI B 16.5 RF）	150psi	229	191	89	89	157	$3^{+0.5}$	30	8	M18
	300psi	255	200	89	89	157	$3^{+0.5}$	32	8	M18



Remote flanges for diff. pressure transmitters

Process connection / Diaphragm material	
A	DN50 DIN2501 E DN2526 flange / SS316L
B	DN50 DIN2501 E DN2526 flange / Hastelloy C
C	DN50 DIN2501 E DN2526 flange / Tantalum
H	DN80 DIN2501 E DN2526 flange / SS316L
I	DN80 DIN2501 E DN2526 flange / Hastelloy C
G	DN80 DIN2501 E DN2526 flange / Tantalum
D	2" ANSI B 16.5 RF flange / SS316L
E	2" ANSI B 16.5 RF flange / Hastelloy C
F	2" ANSI B 16.5 RF flange / Tantalum
K	3" ANSI B 16.5 RF flange / SS316L
L	3" ANSI B 16.5 RF flange / Hastelloy C
M	3" ANSI B 16.5 RF flange / Tantalum
N	4" ANSI B 16.5 RF flange / SS316L
O	4" ANSI B 16.5 RF flange / Hastelloy C
P	4" ANSI B 16.5 RF flange / Tantalum
Z	Speciale

Working pressure	
1	PN10 / 40 - for DIN2501
2	PN64 - for DIN2501
3	PN100 - for DIN2501
6	150psi - for ANSI B 16.5
7	300psi - for ANSI B 16.5
8	600psi - for ANSI B 16.5 (4" excluded)

Extension / Material	
F	None
H	50mm / SS316L
I	100mm / SS316L
G	150mm / SS316L
L	50mm / Hastelloy C
M	100mm / Hastelloy C
N	150mm / Hastelloy C
Z	Special

Filling liquid	
S	Silicone oil (-30 ÷ +200°C)
V	Vegetable oil (0 ÷ 250°C)

Diaphragm protection (only for SS316L)	
0	None
1	EFP plating (up to 180°C)
2	PFA plating (up to 260°C)
3	PTFE coating (up to 200°C)